FIG. 1A

bit (x)	bit (x+1)	copy control information
0	0	copy-free
1	0	once-copy
0	1	no-more-copy
1	1	never-copy

FIG. 1B

bit (x+2)	bit (x+3)	copy protection information
0	0	no false synchronization pulse + no burst inserted
0	1	false synchronization pulse
1	0	false synchronization pulse + 2-line of inverted burst inserted
1	1	false synchronization pulse + 4-line of inverted burst inserted

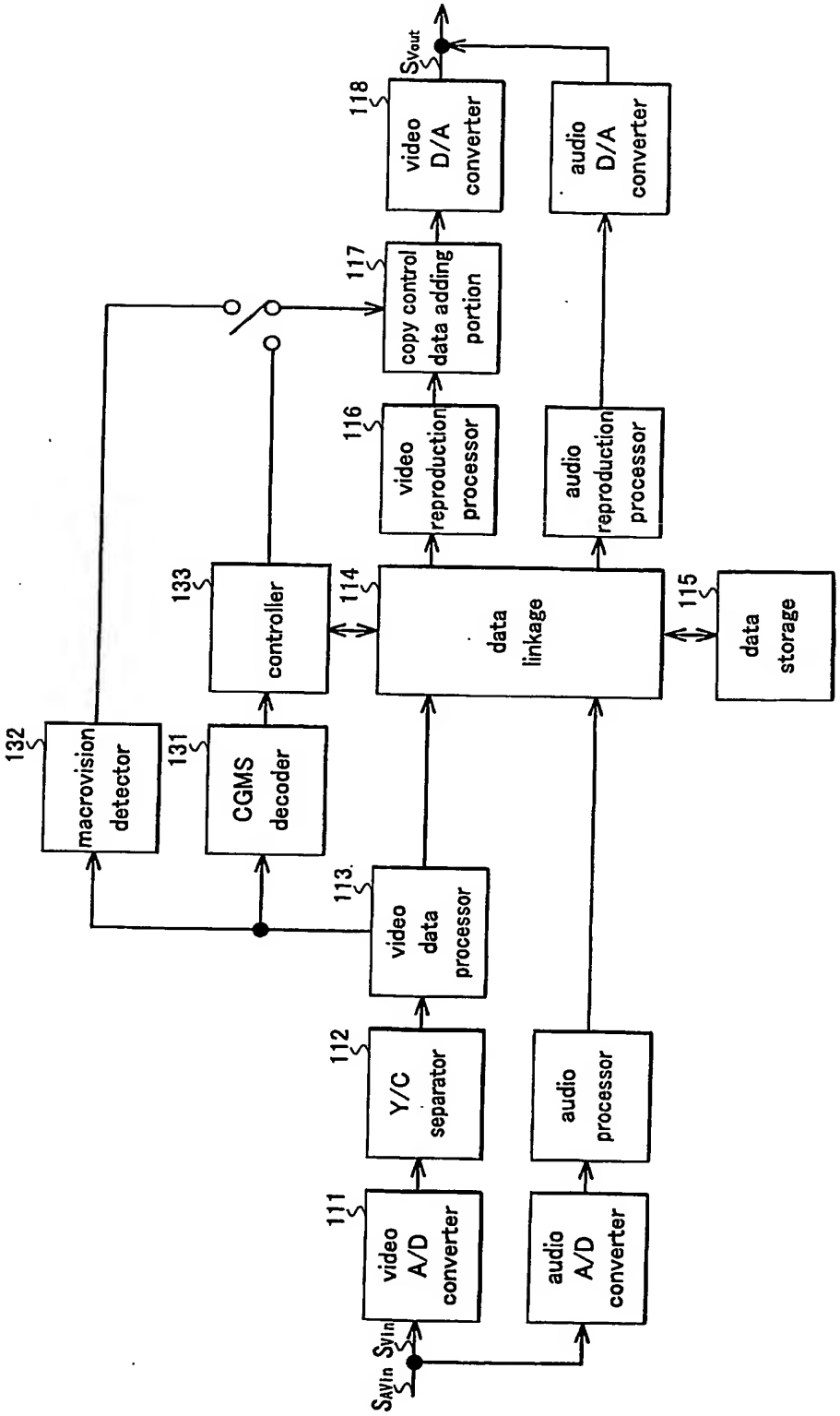
S_{AVin}
S_{Vin}
video A/D converter
111
audio A/D converter
Y/C separator
112
audio processor
video data processor
113
macrovision detector
132
CGMS decoder
131
controller
133
data linkage
114
data storage
115
video reproduction processor
116
audio reproduction processor
copy control data adding portion
117
video D/A converter
118
audio D/A converter
S_{Vout}

FIG. 2

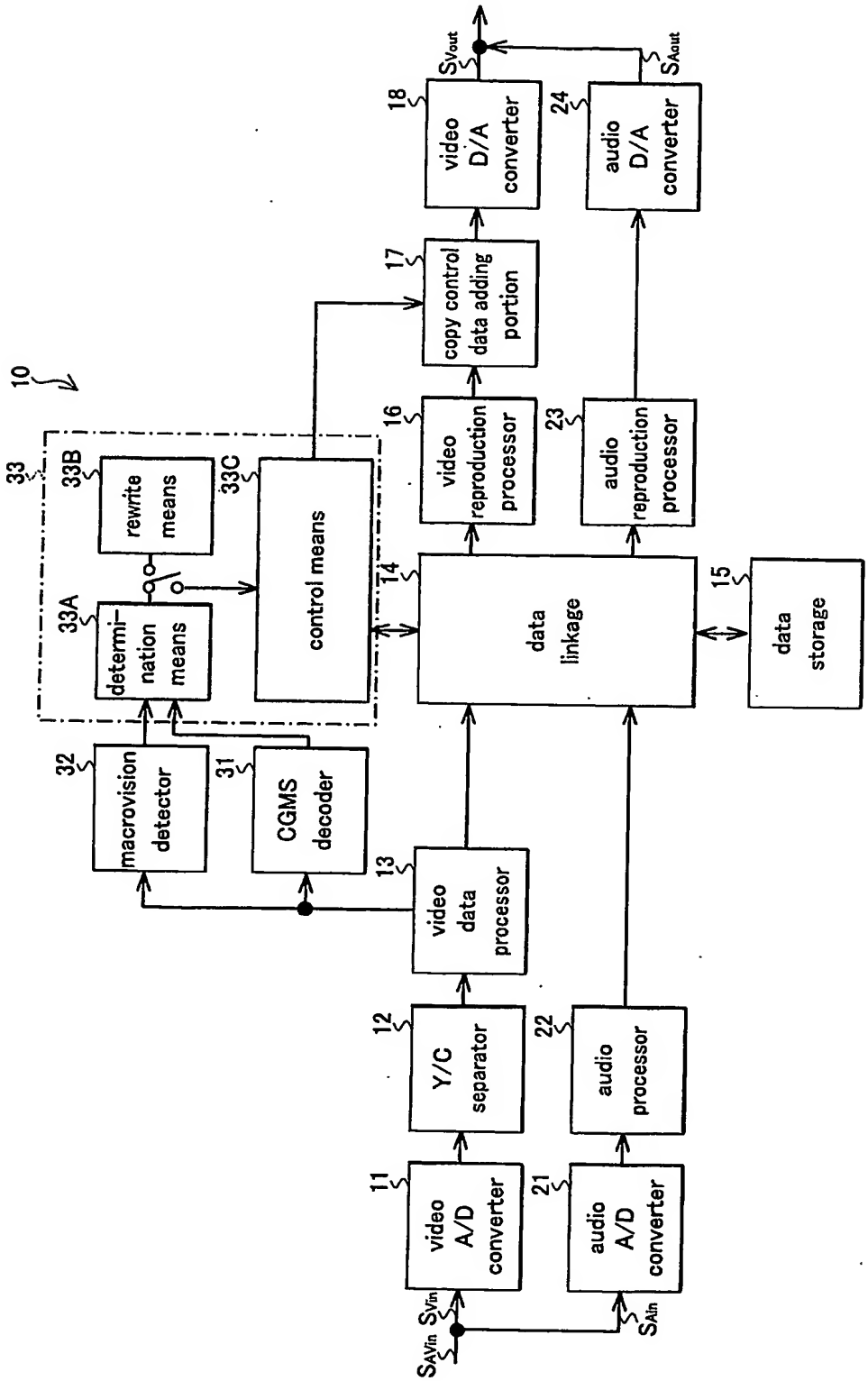
10
33
33A
determination means
33B
rewrite means
33C
control means
32
macrovision detector
31
CGMS decoder
11
video A/D converter
12
Y/C separator
13
video data processor
14
data linkage
15
data storage
16
video reproduction processor
17
copy control data adding portion
18
video D/A converter
21
audio A/D converter
22
audio processor
23
audio reproduction processor
24
audio D/A converter
SVin
SAVin
SAin
SVout
SAout

FIG. 3

macrovision signal information	CGMS data		determination means	rewrite means
	copy protection information (p)	copy control information (c)		
no macrovision signal	0 0	0 0	not contradict	———
		0 1	contradict	rewrite (c)
		1 0	contradict	rewrite (c)
		1 1	contradict	rewrite (c)
	0 1	0 0	contradict	rewrite (p)
		0 1	contradict	rewrite (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p)and(c)
	1 0	0 0	contradict	rewrite (p)
		0 1	contradict	rewrite (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p)and(c)
	1 1	0 0	contradict	rewrite (p)
		0 1	contradict	rewrite (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p)and(c)

FIG. 4

macrovision signal information	CGMS data		determination means	rewrite means
	copy protection information (p)	copy control information (c)		
false synchroni-zation pulse only	0 0	0 0	contradict	rewrite (p)and(c)
		0 1	contradict	rewrite (p) or (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p) or (p)and(c)
	0 1	0 0	contradict	rewrite (c)
		0 1	not contradict	———
		1 0	contradict	rewrite (c)
		1 1	not contradict	———
	1 0	0 0	contradict	rewrite (p)and(c)
		0 1	contradict	rewrite (p) or (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p) or (p)and(c)
	1 1	0 0	contradict	rewrite (p)and(c)
		0 1	contradict	rewrite (p) or (p)and(c)
		1 0	contradict	rewrite (p)and(c)
		1 1	contradict	rewrite (p) or (p)and(c)

FIG. 5

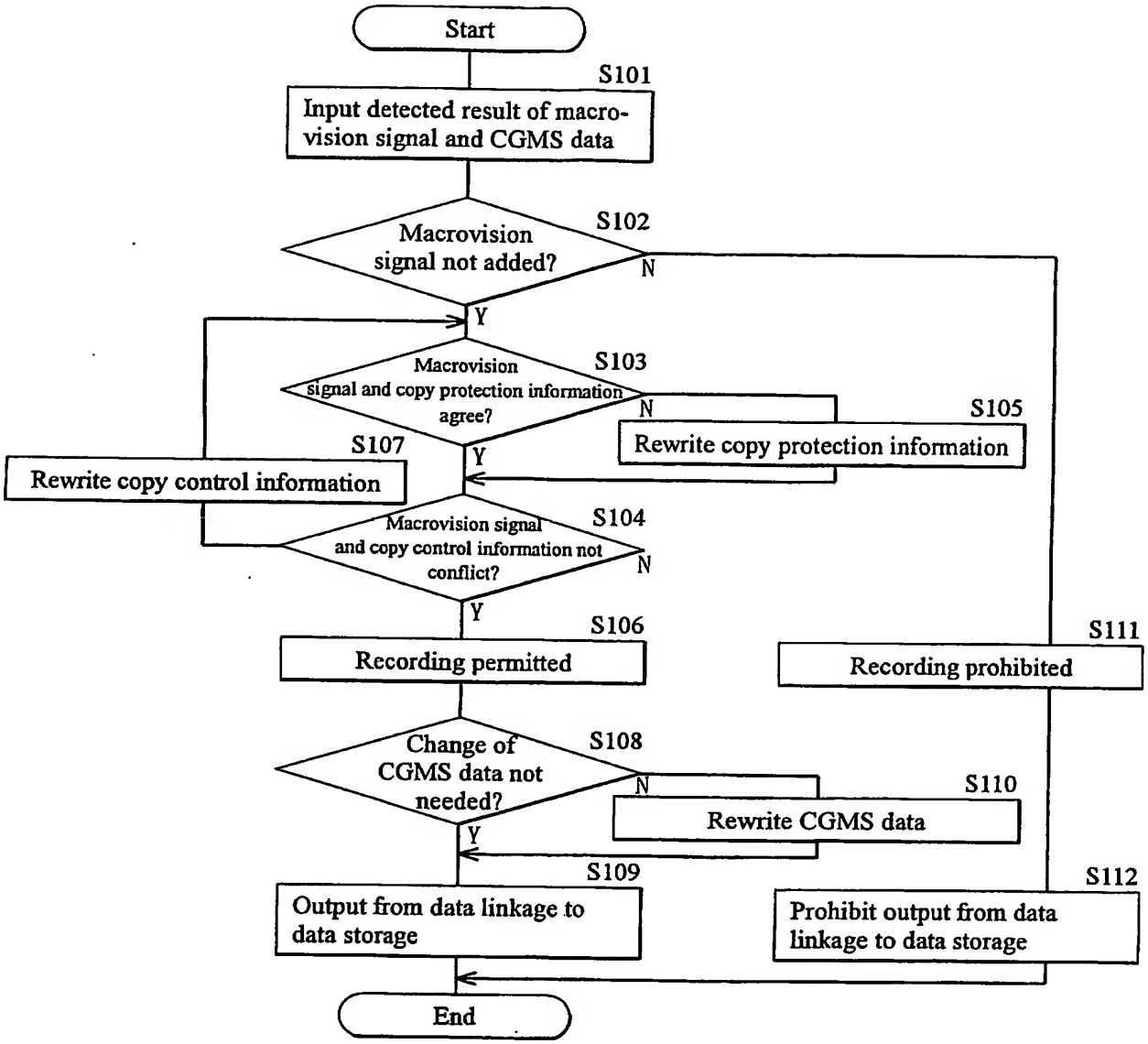
Start
S101
Input detected result of macro-vision signal and CGMS data
Macrovision signal not added?
S102
N
Y
Macrovision signal and copy protection information agree?
S103
N
S105
Rewrite copy protection information
Y
S107
Rewrite copy control information
Macrovision signal and copy control information not conflict?
S104
N
Y
S106
Recording permitted
S111
Recording prohibited
Change of CGMS data not needed?
S108
N
S110
Rewrite CGMS data
Y
S109
Output from data linkage to data storage
S112
Prohibit output from data linkage to data storage
End

FIG. 6

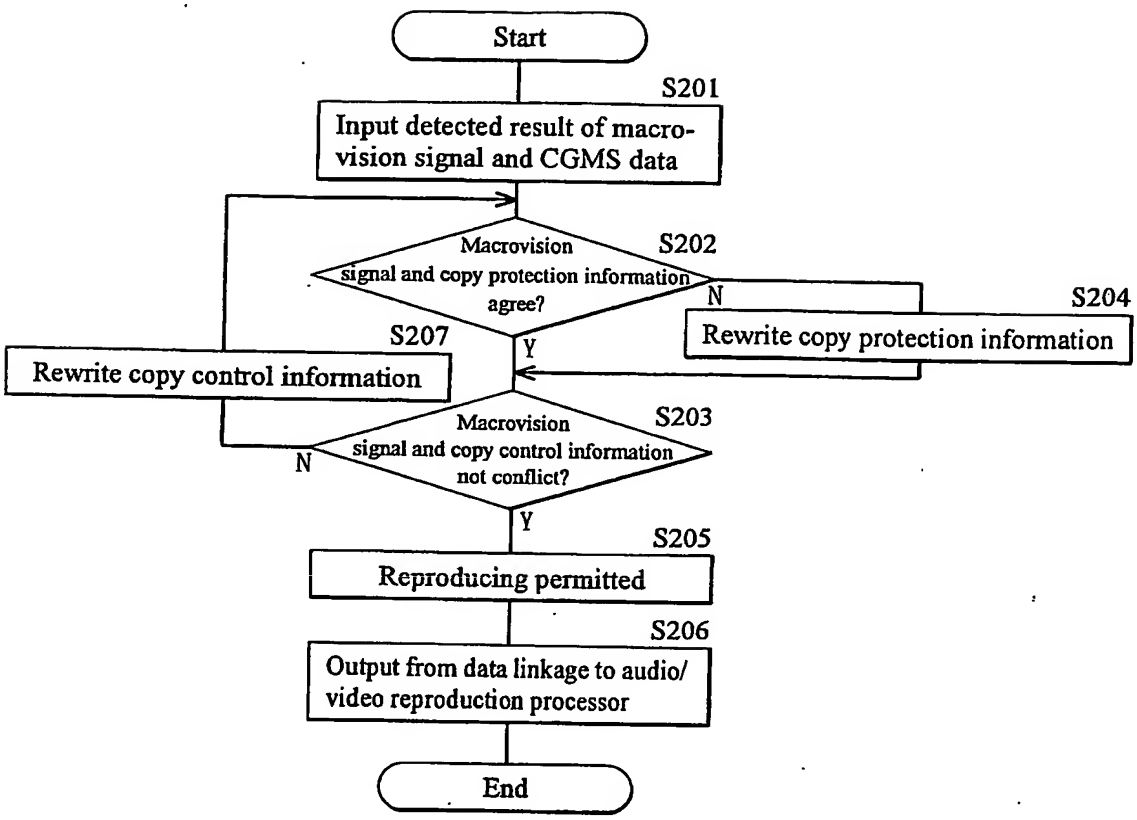
Start
S201
Input detected result of macro-vision signal and CGMS data
Macrovision signal and copy protection information agree?
S202
N
S204
Rewrite copy protection information
Y
S207
Rewrite copy control information
Macrovision signal and copy control information not conflict?
S203
N
Y
S205
Reproducing permitted
S206
Output from data linkage to audio/ video reproduction processor
End

FIG. 7

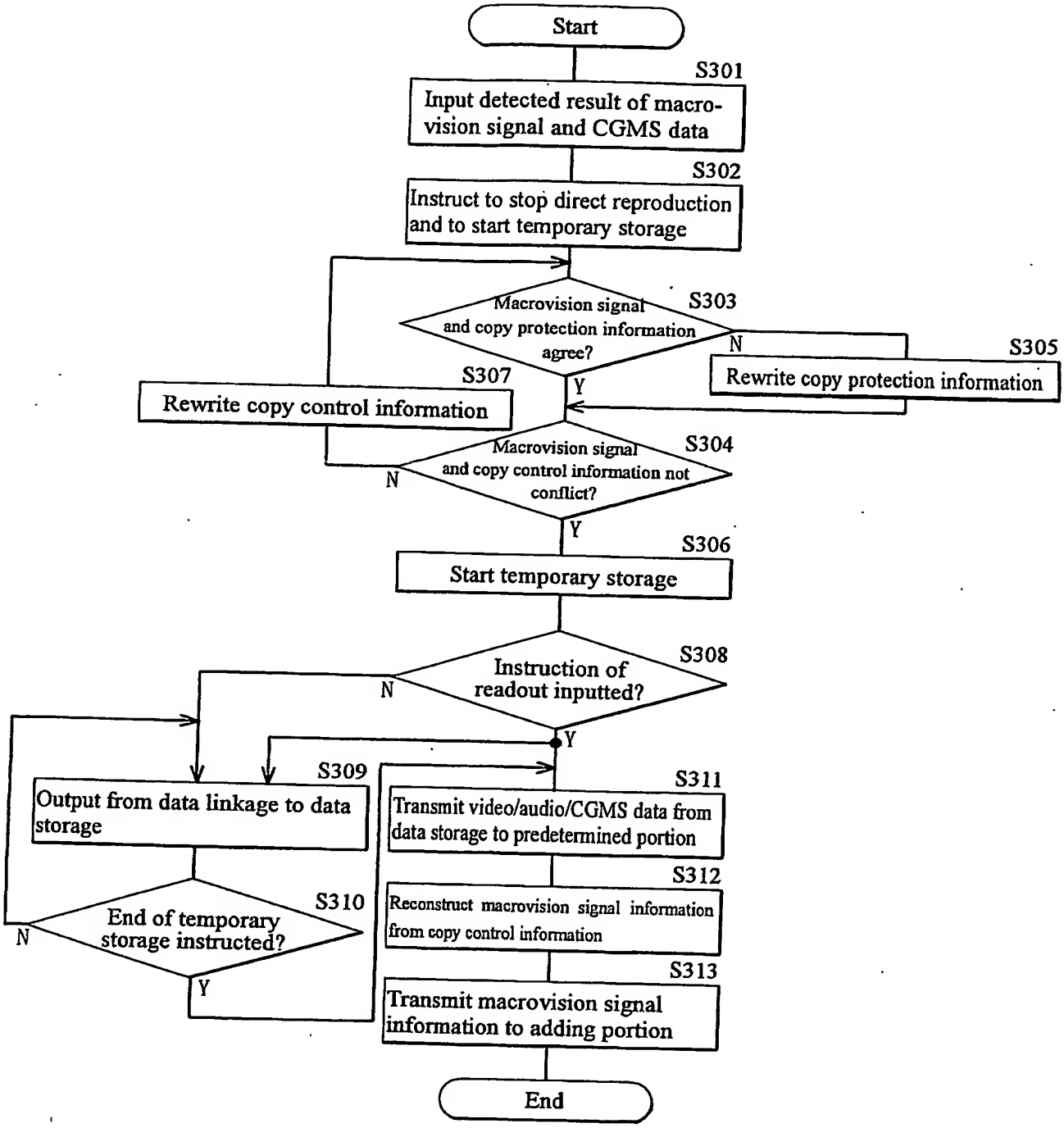
Start
S301
Input detected result of macro-vision signal and CGMS data
S302
Instruct to stop direct reproduction and to start temporary storage
S303
Macrovision signal and copy protection information agree?
N
Y
S305
Rewrite copy protection information
S307
Rewrite copy control information
S304
Macrovision signal and copy control information not conflict?
N
Y
S306
Start temporary storage
S308
Instruction of readout inputted?
N
Y
S309
Output from data linkage to data storage
S310
End of temporary storage instructed?
N
Y
S311
Transmit video/audio/CGMS data from data storage to predetermined portion
S312
Reconstruct macrovision signal information from copy control information
S313
Transmit macrovision signal information to adding portion
End

FIG. 8